The summaries of embedding-based transfer CDR approaches

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| Group | Approach | Venue | Categorization of CDR | The used technologies | Experimental datasets |
| Cross-domain alignment methods for embeddings | Huang et al. (2019) | Neurocomputing | Single-target CDR | Matrix Factorization, Collaborative filtering | Amazon1, Movielens2 |
| Liu et al. (2021b) | NeurIPS | Single-target CDR | Matrix Factorization, Stein path alignment | Douban3, Amazon1 |
| Zhong et al. (2020) | TCYB | Single-target CDR | Autoencoder, Attention mechanism, Multilayer perceptron | Amazon1, Movielens2 |
| Zhang et al. (2021) | TKDE | Single-target CDR | Matrix Factorization,  Dual Adversarial network | Amazon1, Movielens2 |
| Liu et al. (2021a) | Information Sciences | Single-target CDR | Matrix factorization, Adversarial learning,  Attention network | Amazon1, Movielens2,Netflix4 |
| Yu et al. (2022) | Neural Computing and Applications | Single-target CDR | Matrix Factorization, Linear least square | MovieLens, Douban3 |
| Gao et al. (2022a) | TKDD | Single-target CDR | Latent factor model  Attention network  Multilayer perceptron | MovieLens2, Netflix4,  TC-IQI Dataset5 |
| Liu et al. (2023) | TKDE | Multiple-target CDR | Knowledge graph  Binding rule | Amazon1, Movielens2,Netflix4 |
| Zhao et al. (2023) | WWW | Single-target CDR | Heterogeneous graph, Graph convolutional networks, | Douban3 |
| Zhao et al. (2024) | TKDE | Dual-target CDR | Heterogeneous graph, Attention mechanism  Knowledge transfer | MovieLens2, Netflix4, Douban3 |
| Mapping function methods | Man et al. (2017) | IJCAI | Single-target CDR | Matrix Factorization, Multilayer perceptron | MovieLens2, Netflix4, Douban3 |
| Zhu et al. (2018) | IJCAI | Single-target CDR | Matrix Factorization  Deep neural networks | MovieLens2, Netflix4, Douban3 |
| Wang et al. (2020b) | Knowledge and Information Systems | Single-target CDR | Matrix factorization  Gradient boosting trees  Multilayer perceptron | Amazon1 |
| Wang et al. (2020a) | TNNLS | Single-target CDR | Latent factor model  Adversarial learning | Amazon1 |
| Li & Tuzhilin (2023) | TKDE | Single-target CDR | Multilayer perceptron  Dual Learning  Metric learning | Imhonet6  Amazon1 |
| Li et al. (2024) | WSDM | Single-target CDR | Latent factor model  Neural Process  Meta-learning | Amazon1 |
| Huang et al. (2024) | CIKM | Single-target CDR | Deep neural networks  Supervised learning | online A/B tests on Meituan |

1 http://jmcauley.ucsd.edu/data/amazon

2 https://grouplens.org/datasets/hetrec-2011.

3 Zhu, F.,Chen, C., Wang,Y., Liu, G., Zheng, X. (2019). Dtcdr: A framework for dual-target cross-domain recommendation. In Proceedings of CIKM, 1533-1542.

4 https://www.kaggle.com/netflix-Inc./netflix-prize-data.

5 Yang, C., Yan, H., Yu, D., Li, Y., Chiu, D. (2017). Multi-site user behavior modeling and its application in video recommendation. In Proceedings of SIGIR, 175-184.

6 Bobrikov, V., Nenova, E., Ignatova D. I. (2016). What is a fair value of your recommendation list? In Proceedings of the Third Workshop on Experimental Economics and Machine Learning co-located with the 13th International Conference on Concept Lattices and Their Applications, 11-12.